

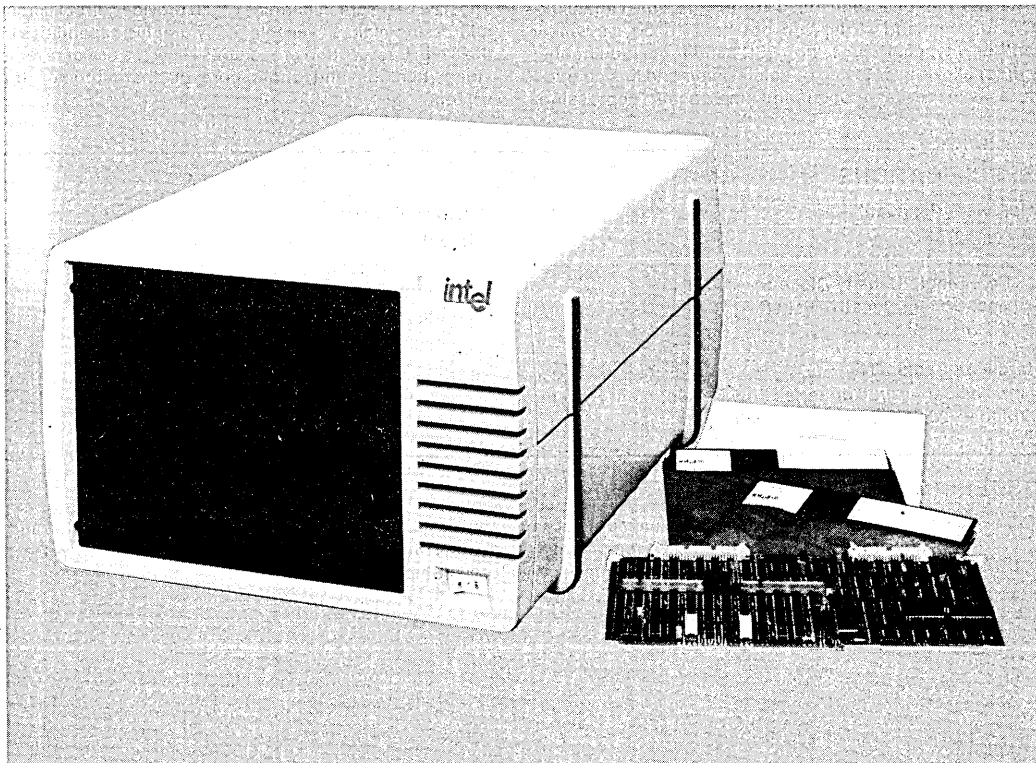


## Model iMDX-750 Intellec® Series II/III/IV Winchester Subsystem

- 22 Mbyte formatted capacity
- High performance speeds program development
- Reliable 8-inch Winchester technology increases disk integrity
- Upgrades Series II, Series III, and Series IV development systems
- Freestanding chassis with power supply and cables
- Provides intelligent archival utility
- Upgradable to the NDS-II, distributed multi-user network

Intel's Model 750 Winchester Disk subsystem provides on-line, high-capacity storage to improve system throughput and reduce development time.

Both disk access speed and data transfer rate of the iMDX-750 are faster than Intel's Model 740 cartridge disk system, enabling the disk to provide 10–50% better system throughput for various development functions. The 750 can be integrated into the NDS-II, providing easy upgrade from stand-alone to multi-user environment, while protecting the user's investment in the 750.



ORDER NUMBER: 210351-003

## **FUNCTIONAL DESCRIPTION**

### **Hardware Components**

Intel's Winchester disk subsystem consists of a disk drive and power supply enclosed in a freestanding peripheral chassis, plus an intelligent disk controller, interconnecting cables and documentation.

The Winchester disk provides 22 Mbytes of formatted storage at data transfer rate of 6.4 Mbits/second.

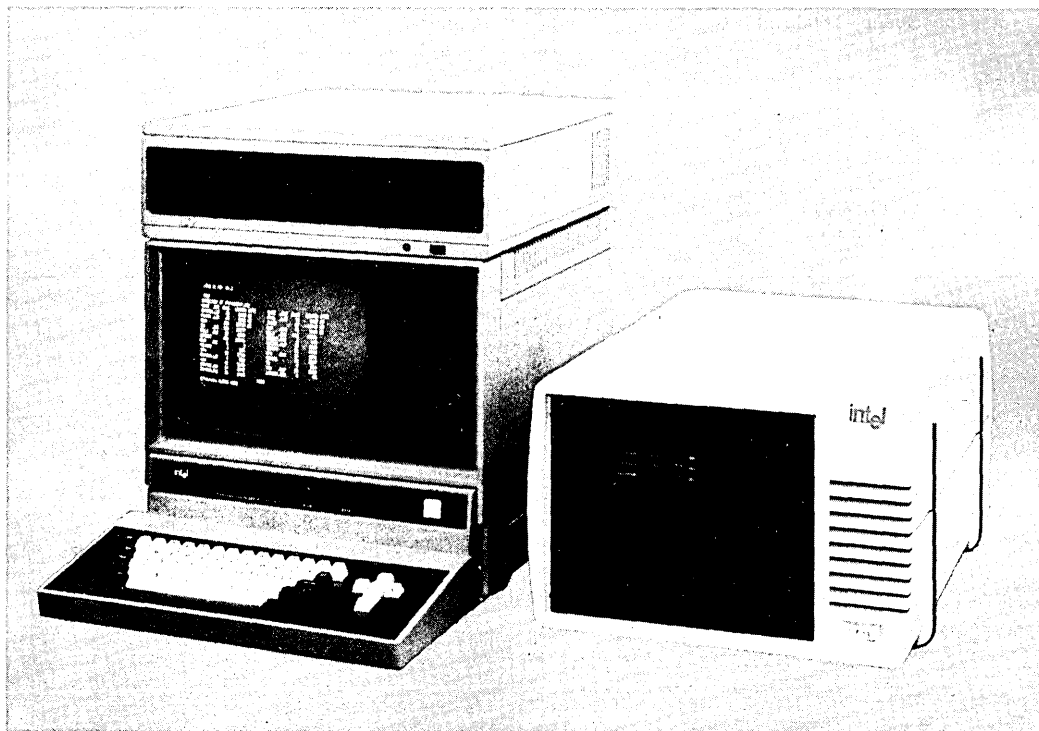
The disk controller provides the interface to Intel's system bus. This single-board controller resides in one slot of an Intellec<sup>®</sup> system card cage.

### **Associated Software—Intel Systems Implementation Supervisor (ISIS-II)**

The Winchester subsystem is to be used in conjunction with the ISIS-II (W) Operating System. ISIS-II (W) provides total file management capabilities, file editing, library management, run-time support, and utility management.

### **Equipment Supplied**

- Peripheral chassis with Winchester drive and power supply
- Interconnecting cables
- Winchester disk controller (1 board)
- ISIS-II (W) System Diskette
- ISIS-II (W) System User's Guide
- Modified backpanel for Intellec System



## SPECIFICATIONS

### Hardware

#### Disk Drive

Type—Winchester sealed disk  
 Tracks per Inch—480  
 Mechanical Sectors per Track—70  
 Recording Technique—70 MFM  
 Tracks per Surface—525  
 Density—6,670 bits/inch  
 Bytes per Track—13,440  
 Recording Surfaces—5

#### Disk System Capacity

Disk Transfer Rate—6.4 Mbits/sec  
 Disk System Access Time—  
   Track to Track: 10 ms max.  
   Full Stroke: 90 ms  
 Rotational Speed: 3,600 rpm

### Physical Characteristics

Disk Drive in Peripheral Chassis  
 Width—16.9 in. (42.9 cm)  
 Height—11.3 in. (28.7 cm)  
 Depth—24.3 in. (61.7 cm)  
 Weight—55 lb. (25 kg)

## Electrical Characteristics

### Chassis

DC Power Supplies—Internal to Cabinet  
 AC Power Requirements  
   110 VAC: 60 Hz; 5A (max)  
   220 VAC: 50 Hz; 3A (max)

### Controller Boards

5V @ 2.5A (typ), 3.25 (max)

## Environmental Characteristics

### Media, Drive and Chassis

#### Temperature:

Operating: 15°C to 35°C  
 Non-operating: -9°C to 60°C

#### Humidity:

10% to 90% non-condensing

### Controller Boards

#### Temperature:

Operating: 0°C to 55°C  
 Non-operating: -55°C to 85°C

#### Humidity:

Up to 90% non-condensing

## ORDERING INFORMATION

Part Number	Description
IMDX 750A 110V, 60 Hz	Series II/III Winchester subsystem. Provides Winchester disk, chassis, power supply, cables, disk controller, software and documentation for Series II/85 and Series III Intellect® systems.
IMDX 750B 220V, 50 Hz	
IMDX 750IA 110V, 60 Hz	Series II/80 Winchester subsystem with IPC-85 computer board. Provides Winchester disk, chassis, power supply, cables, disk controller, IPC-85 computer board, software and documentation for Series II/80 Intellect® systems.
IMDX 750IB 220V, 50 Hz	